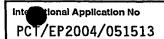
INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B23Q17/22 B23Q17/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{1}{7}$ B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 2001/017699 A1 (EGELHOF JOACHIM) 30 August 2001 (2001-08-30) the whole document	1-17		
A	DE 196 29 616 A (HEILIG & SCHWAB GMBH) 29 January 1998 (1998-01-29) the whole document	1–17		
Α	US 3 912 925 A (GASKELL JESSE) 14 October 1975 (1975-10-14) cited in the application the whole document	1–17		
	-/			

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.			
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 			
Date of the actual completion of the international search 14 October 2004	Date of mailing of the international search report 22/10/2004			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswljk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Müller, A			

C (Continue	(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	<u> </u>	Relevant	to claim No.			
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03, 27 February 1998 (1998-02-27) & JP 9 300178 A (MAKINO MILLING MACH CO LTD), 25 November 1997 (1997-11-25) cited in the application abstract	1	-17			

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DE 19629616	A	29-01-1998	DE	19629616 A1	29-01-1998
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JP 9300178	Α	25-11 - 1997	NONE		

Form PCT/ISA/210 (patent family annex) (January 2004)